COMMON “LOOK & FEEL” for IETMs

IADS USERS CONFERENCE
Huntsville, Alabama

Pushpa Merchant
PBM Associates, Inc.
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Information Management Consultants
PBM Associates, Inc.

ISSUES

- Past several years, DoD-wide standardization efforts in regards to IETMs have been on hiatus
  - Individual Services (and even commands within the services) conducting own efforts
- Flag level officers within all services and at the joint level (JLC) have stated their preference for common look & feel across IETMs
  - Reduces training of the maintainer
  - Facilitates maintainer to perform tasks across multiple weapons system platforms

WHY WE NEEDED TO DO THIS

- Since services started developing own requirements we lost objective/mission of the Tri-Service IETM Technology WG
- When we looked at just what the Navy SYSCOMS were developing we realized that there was an incredible amount of commonality between the two efforts and also with what was in MIL-HDBK-511
  - Therefore, why duplicate efforts
  - Other services may be thinking along same lines

OBJECTIVES

- Service reps to the TSIETMTWG were e-mailed a spreadsheet
  - Spreadsheet identified the common key features identified by the NAVAIR and NAVSEA efforts
  - Spreadsheet provided reference (where possible) to MIL-HDBK-511 requirement
- Intent was to use this spreadsheet as the basis to standardize DoD Common “Look & Feel” requirements
  - Could add to the requirements in the spreadsheet

OBJECTIVES

- We have to agree on “some things” that can be standardized (minimal required functionality)
  - Past efforts → lot of discussion; no concrete requirements defined
- Other functions need to be defined and standard icons/nomenclature need to be determined; usage however is on program by program basis
- Need to determine and standardize on some parameters for screen layout, yet offer some flexibility for IETM developer

OBJECTIVES

- Coordination with the AIA Functionality Matrix revision effort
- Develop a DoD handbook for "Common Look & Feel"
  - Goal is to combine the Common Look & Feel and Functionality Matrix requirements into one handbook
- Submit requirements as input to the International S1000D effort

REQUIRED FUNCTIONS

- Previous
- Next
- TOC
- History
- Search
- Print

- Feedback
- Exit
- Help

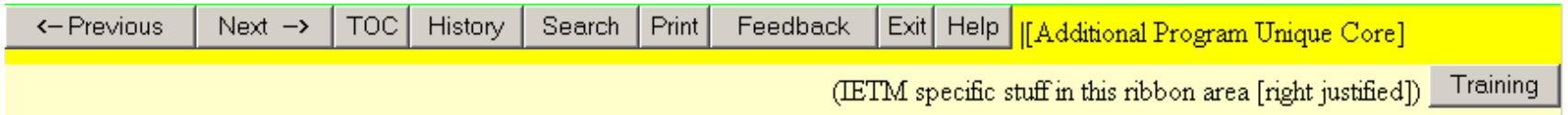
OPTIONAL FUNCTIONS

- Sound/Voice
- Video
- Animation
- Graphic
- One-way link
- Two-way link
- Training

- Parts
  - Information
  - Ordering
- Browse
- Session Control (suspend, resume)

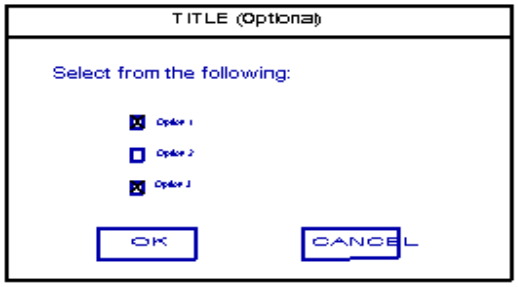
EXAMPLES

- Standard Navigation Bar
  - Placement can be top or bottom of screen



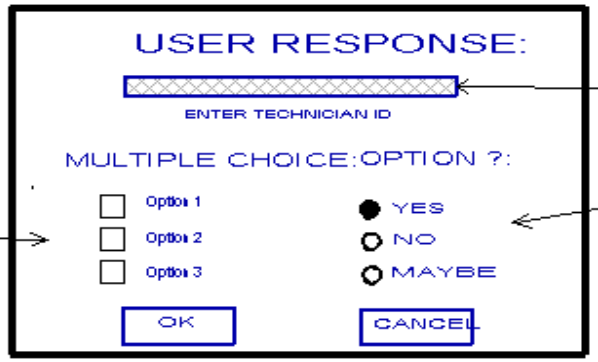
EXAMPLES

- Dialog Boxes



Multiple-Choice Dialog

Alert Dialog



Multiple Choice Buttions

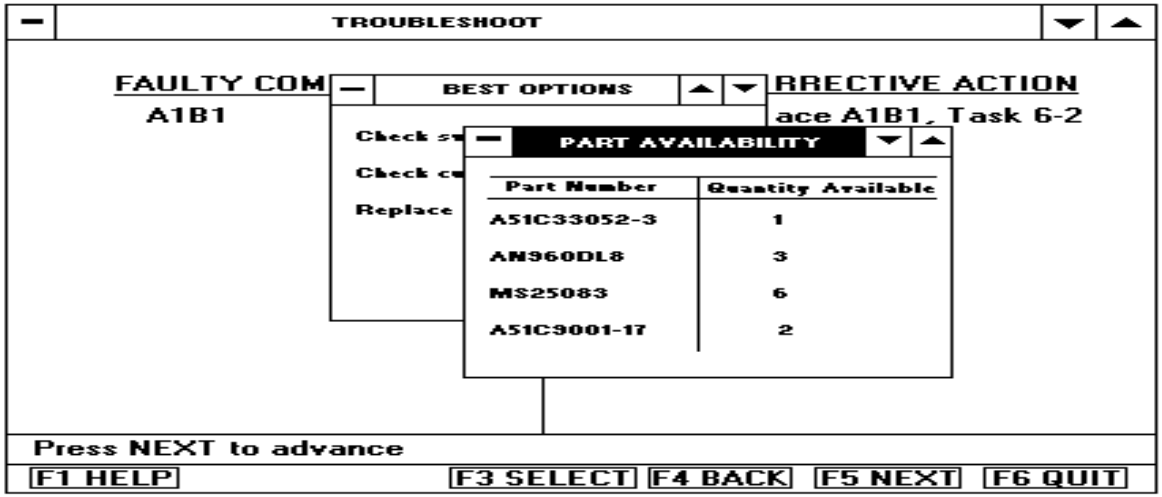
Radio Buttions

A combination of dialogs can be used in a single dialog box.

Specific format for example only.

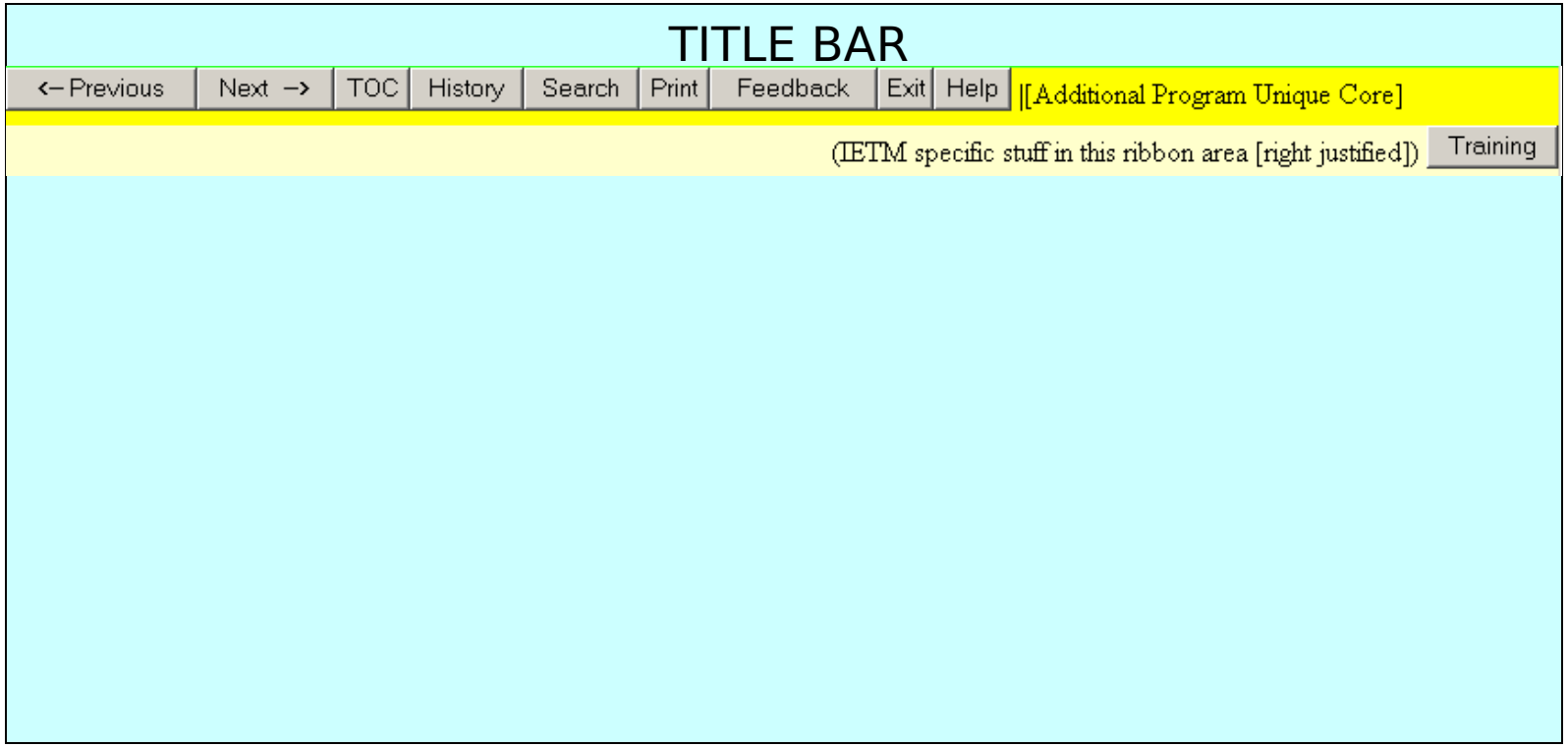
EXAMPLES

- Screen Stacking
  - Discouraged because can cause confusion, but may be a requirement for systems that acknowledge alerts



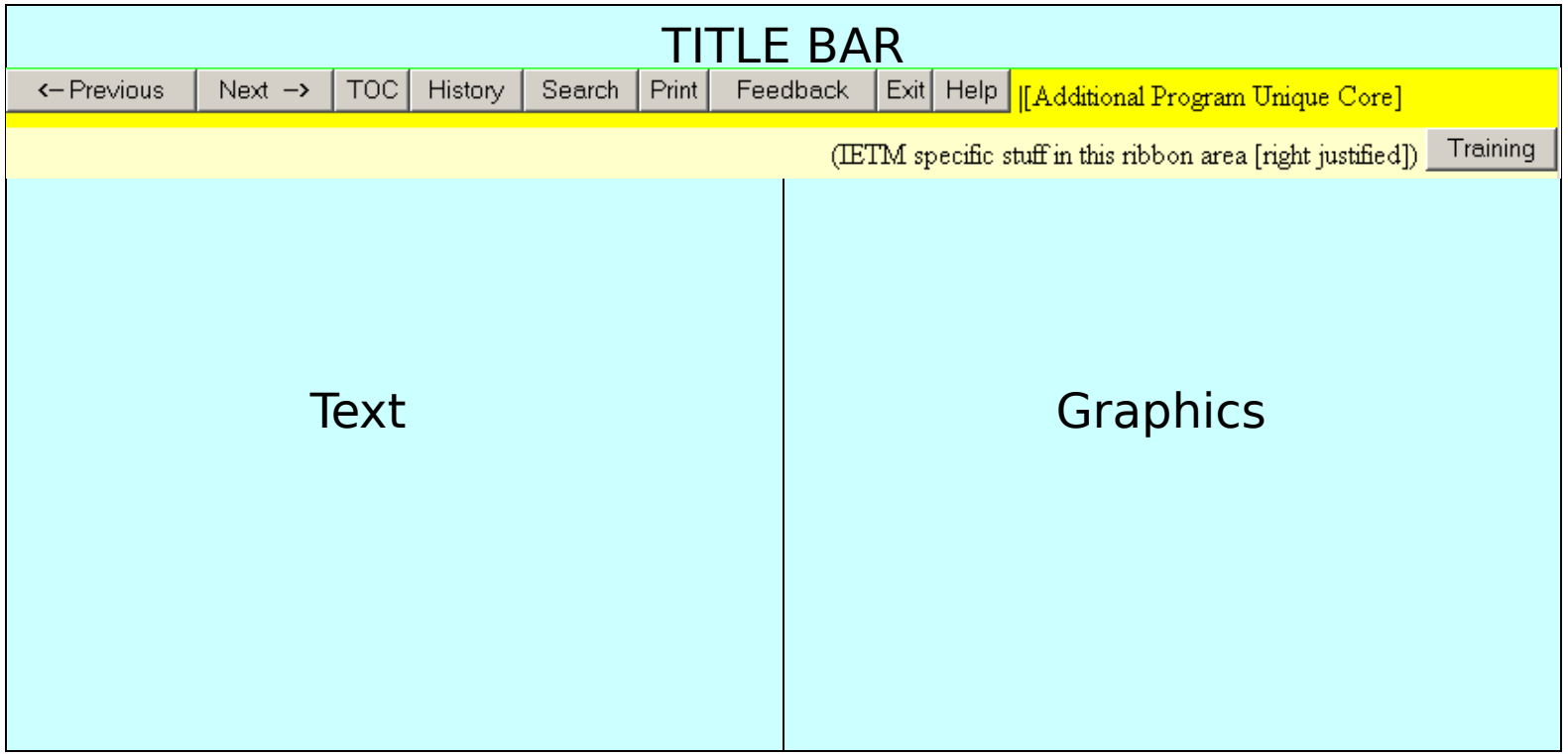
EXAMPLES

- Screen Layout



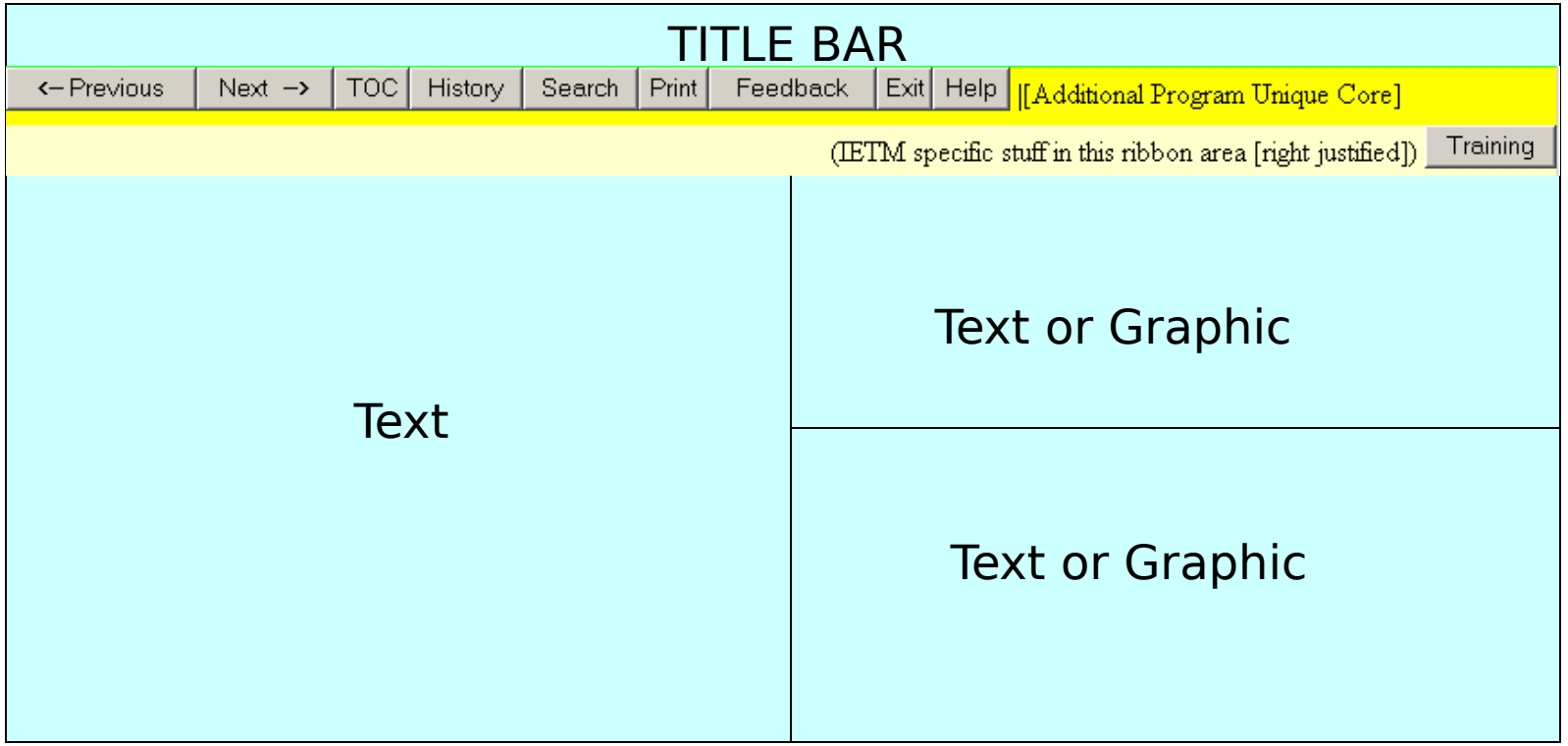
EXAMPLES

- Screen Layout



EXAMPLES

- Screen Layout



EXAMPLES

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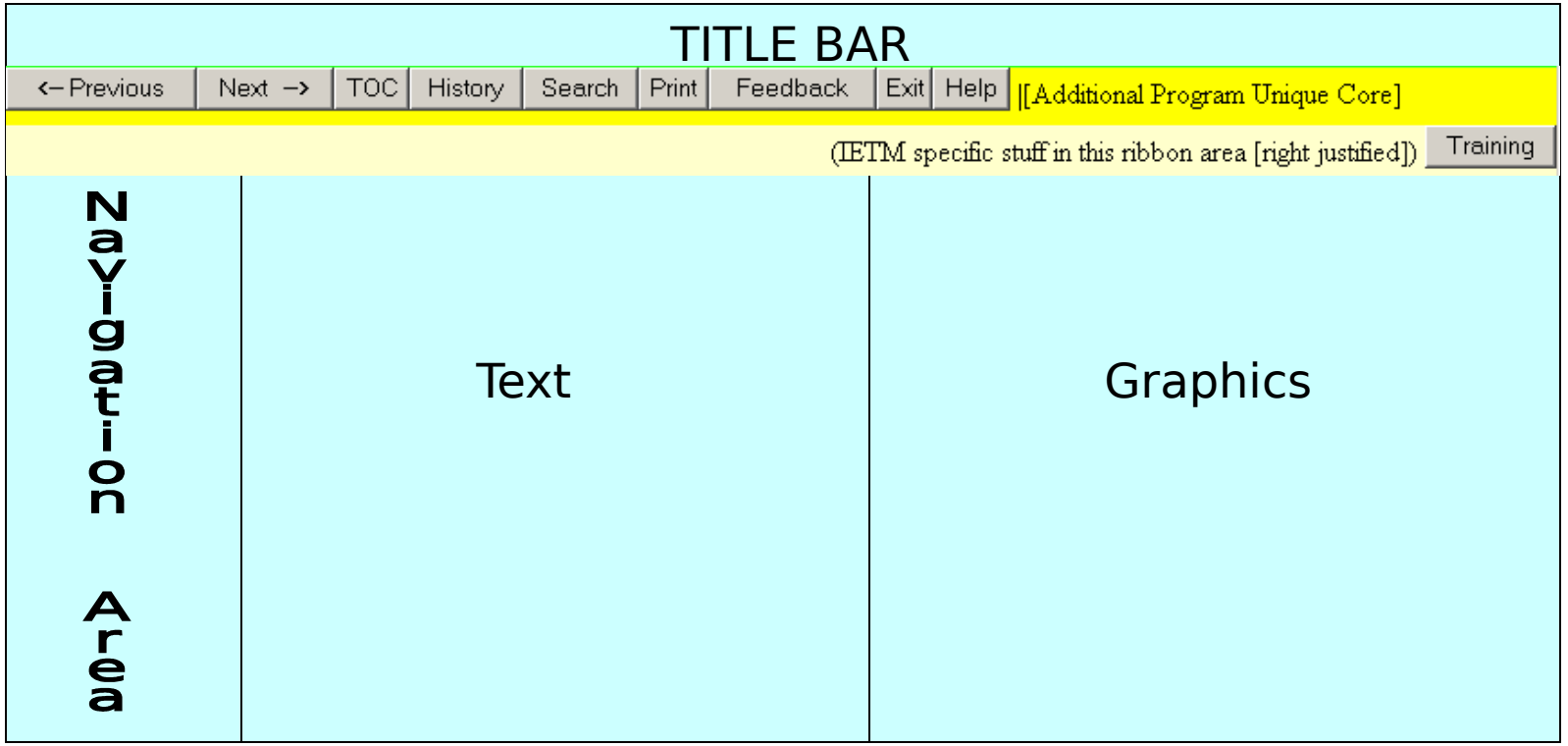
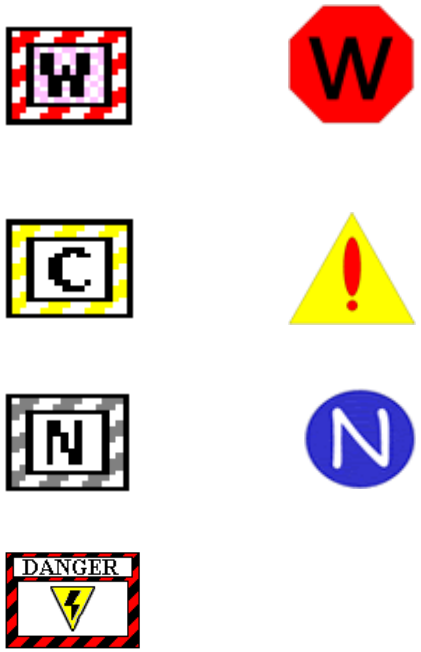


OTHER TOPICS

- Selectable Elements
  - a. All hotspots should be visually indicated
  - b. There should be an indication of link type destination (target) when the cursor passes over the hotspot
  - c. There are three acceptable modes of visual indication of hotspots (selectable areas)
    - 1. Persistent visual indication that an area is hot
    - 2. Cursor changing shape/color
    - 3. Object changes while cursor over area (e.g., IPB callout expands)

EXAMPLES

- Persistent Alerts
  - Warnings
  - Cautions
  - Notes
  - Danger (?)



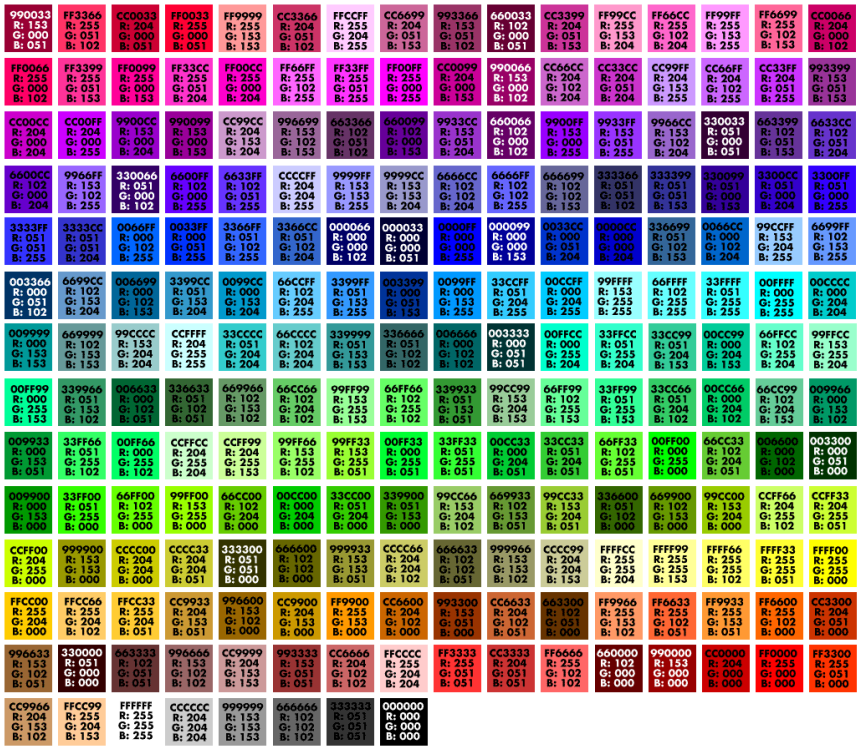
OTHER TOPICS

- PC Screen Size
  - IETM should be authored to display on a desktop, laptop, tablet, or electronic book that is 800 pixels wide by 600 pixels high
- PDA / Pocket PC Screen Sizes
  - 160 x 160 (most vendors support (Monochrome & Color) at least in monochrome)
  - 320 x 240 (several vendors supply)
  - 320 x 480 (little vendor support so far)

  An IETM must be able to be used at these alternative resolutions

OTHER TOPICS

- Color: design for worst display device – 8-bit PDA
  - 8-bit color palette
  - Hex values
  - RGB values



OTHER TOPICS

- Text Colors / Fonts / Background
  - text should be black (#000000 or #000033) except as noted elsewhere; background should be white (#FFFFFF) except as noted elsewhere

Electronic Presentation	Normal Font	Arial
	Minimum Size	Eight (8) points The minimum size for electronic presentation shall be 8pts. (This is 8 pts). Don't use anything smaller. This is 6pts.
	Fixed Font (if needed)	Courier New
Hardcopy Presentation	Normal Font	Arial or Times New Roman
	Minimum Size	8 points
	Fixed Font (if needed)	Courier New

  - custom fonts are strongly discouraged